

1 COUNTERING POLYMORPHIC MALICIOUS COMPUTER CODE THROUGH CODE  
2 OPTIMIZATION

3 Abstract of the Disclosure

4 Methods, apparatus, and computer-readable media for determining whether computer code  
5 (30) contains malicious code. In a method embodiment, the computer code (30) is optimized (40)  
6 to produce optimized code; and the optimized code is subject to a malicious code detection  
7 protocol. In an embodiment, the optimizing (40) comprises at least one of constant folding (53),  
8 copy propagation (54), non-obvious dead code elimination (62,63), code motion (49), peephole  
9 optimization (52), abstract interpretation (59,68), instruction specialization (55), and control flow  
10 graph reduction (44).  
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